

WSJT-X for Microwave EME (Analogue and Digital) EME2020

Draft 16

Suggested topics

- Why WSJT-X (**control of rig freq allows precise Doppler compensation**), extra modes, enhancements to modes already in WSJT, operator convenience, ...)
- Basics of rig control
- Adjusting the waterfall (gain, zero and average spectrum)
- Doppler compensation methods explained
- Clicking decoded messages to populate TX messages
- **Assisting CW operation**
- How to use in-built signal degradation tool to give approximate estimate of signal margins on recorded signals and experiment with waterfall settings
- How to record signals
- **Useful parameters in the Astro window**
- Settings window
- New modes
- Customising the software
- **Echo mode**

Suggested topics - contd

- QRA64 advantages and limitations
- 'AP' operation (JT65 and QRA64)
- Sync = -1 setting
- Advanced JT65 settings
- Different signal report values to WSJT (and previous versions of X)
- Ftol setting (trading freq uncertainty with sensitivity)
- Single tone 'Sh' messages (QRA64, JT4)
- Effects of frequency control step size and drift
- Using 'Configurations'
- Common 'mistakes'
- Use of 'Help' and where to get support
- Test signals with [link](#)

Common mistakes

- Can't see JT65/JT4 submode setting control:
make sure this is enabled: ☒ Enable VHF/UHF/Microwave features

Links to other docs on WDG google drive

1296 on-air tests comparing JT65C to QRA64B

<https://drive.google.com/file/d/1YZiavy0q5NPhMyudZNU5JclF1GcZRpHV/view?usp=sharing>

https://drive.google.com/file/d/13cSS0Pth4KwjdoNX8W1zOdCa0f_T2loL/view?usp=sharing

Simulation and 10GHz on-air comparison of JT4F and QRA64D

<https://drive.google.com/file/d/0B116lwQIUFNTX3YxYtIITVdDc2M/view?usp=sharing>

Getting the best out of QRA64 on 10 and 24GHz (English and German)

<https://drive.google.com/file/d/0B116lwQIUFNTbGl1RUd2ZkcweEE/view?usp=sharing>

https://www.physics.princeton.edu/pulsar/K1JT/QRA64_EME_de.pdf

WSJT-X primer for WSJT users (a bit dated now but hopefully still useful)

<https://drive.google.com/file/d/0B116lwQIUFNTQWloZ3BwQkdoQ0U/view?usp=sharing>

Notes for working Dxpeditions using QRA64

<https://drive.google.com/file/d/0B116lwQIUFNTTGtlcnV5aXlxa2s/view?usp=sharing>

- Please send other ideas for topics to be covered to g3wdg1@gmail.com and I will try to include them